



OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/032,106

DATE: 04/25/2002  
TIME: 15:14:47

Input Set : A:\43311-20007.00.txt  
Output Set: N:\CRF3\04252002\J032106.raw

ENTERED

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58	ctcctggta atctcagggg agcagacaaa tcaatctct atgggtggtt tgtagttcag	300
59	ctgtacatct ctctaggcct gggatctaca gaatgcgttc tcttaggagt gatggtattt	360
60	gaccgctatg cagctgtttc caggcccctc cactacacag tagtcatgca cccttgtctg	420
61	tatgtgtga tggcttctac ttcatgggtc attgggttttgc ccaactccctt attgcagacg	480
62	gtgctcatct tgcttttaac actttgtgaa agaaataaaat tagaacactt tctttgtgag	540
63	gttcctccat tgctcaagct tgccctgtgtt gacactacta tgaatgaatc tgaactcttc	600
64	tttgcgttg tcattattct tcttgcaccc gttgcattaa tcatattctc ctatagtcag	660
65	attgtcaggg cagtcatgag gataaagtta gcaacaggc agagaaaaagt gtttgggaca	720
66	tgtggctccc acctcacagt ggttccctg ttctacggca cagctatcta tgcttacctc	780
67	cagccggca acaactactc tcaggatcag ggcaagttca tctctctt ctacaccatc	840
68	attacaccca tcatcaaccc cctcatatatacactgagga acaaggatgt gaaaggagca	900
69	cttaagaagg tgctctggaa gaactacgac tccagatga	939
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72	<211> LENGTH: 930	
73	<212> TYPE: DNA	
74	<213> ORGANISM: Homo sapiens	
76	<220> FEATURE:	
77	<221> NAME/KEY: misc_feature	
78	<222> LOCATION: (1)...(930)	
79	<223> OTHER INFORMATION: n= a, c, g, or t	
81	<400> SEQUENCE: 3	
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83	gcagacctcc agctccccc tttctccctc ttccctggaa tctacttgtt caccatgtg	120
84	gggaacctgg gcatgatcac tctaatttttgc ctgaactctc agctgcacac ccccatgtac	180
85	tactttctca gcaatctgtc actcatggat ctctgtact cctccgtcat tacccttaag	240
86	atgctggta actttgtgtc agagaaaaac atcatctctt acgcagggtt catgtcacag	300
87	ctctacttct tccctgtttt tgcattgtt gagggttaca tgctgacagt gatggcttac	360
W--> 88	<b>gaccgctatg ttgnctctg ccaccctttt ctttacaaca tcattatgtc tcatacacacc</b>	<b>420</b>
89	tgcctgctgc tgggtggctgt ggtctacgccc atcggactca ttggctccac aatagaaaact	480
90	ggcctcatgt taaaactgccc ctattgtgag cacccatca gtcactactt ctgtgacatc	540
91	ctccctctca tgaagctgtc ctgctctagc acctatgtat ttgagatgac agtcttcttt	600
92	tcggctggat tcaacatcat agtcacgagc ttaacagttc ttgtttctt cacccatc	660
93	ctctccagca tcctcggcat cagcaccaca gagggagat ccaaaggctt cagcacctgc	720
94	agctccacc ttgcagccgt gggaaatgttc tatggatcaa ctgcattcat gtacttaaaa	780
95	ccctccacaa tcagttcctt gacccaggag aatgtggctt ctgtgttctt caccacggta	840
96	atccccatgt tgaatcccctt aatctacagc ctgaggaaca aggaagtaaa ggctgccgtg	900
97	cagaaaaacgc tgagggtaa actgttttga	930
99	<210> SEQ ID NO: 4	
100	<211> LENGTH: 927	
101	<212> TYPE: DNA	
102	<213> ORGANISM: Homo sapiens	
104	<400> SEQUENCE: 4	
105	atggccatgg acaatgtcac agcagtgttt cagttctcc ttattggcat ttctaaactat	60
106	cctcaatggaa gagacacgtt tttcacatata gtcgtataa ttacacccatc cacattgttgc	120
107	ggaaatggat ttatgtatctt tcttattccat tttgacccca acctccacac tccaaatctac	180
108	ttcttccttta gtaacctgtc tttcttagac ctgtttatggaa acagacgttc catggccatc	240
109	gctttgggtc attgtttctt taccatccc tacccatctt atccccatgt ttggctcaa	300
110	acgagtgtct cttggctttt ggccacagca gagtgccctt tactggctgc catggcttat	360
111	gaccgtgtgg ttgctatcag caatccccctg cggttattcag tgggtatgaa tggccctgt	420

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112	tgtgtctgct	tggttgctac	ctcatgggg	acatcaactg	tgctcaactgc	catgctcatc	480									
113	ctatccctga	ggcttcactt	ctgtggggct	aatgtcatca	accatttgc	ctgtgagatt	540									
114	ctctccctca	ttaagctgac	ctgttctgtat	accagcctca	atgaatttat	gatcctcatc	600									
115	accagtatct	tcaccctgct	gctaccatatt	gggtttgttc	tcctctctta	catacgaatt	660									
116	gctatggcta	tcataaggat	tcgctcaactc	cagggcaggc	tcaaggcctt	taccacatgt	720									
117	ggctctcacc	tgaccgtggt	gacaatcttc	tatgggtcag	ccatctccat	gtatatgaaa	780									
118	actcagtcacca	agtccctaccc	tgaccaggac	aagtttatct	cagtgttta	tggagctttg	840									
119	acacccatgt	tgaacccct	gatataatgc	ctgagaaaaaa	aagatgttaa	acggcaata	900									
120	aggaaagtta	tgttggaaaag	gacatga				927									
122	<210>	SEQ ID NO:	5													
123	<211>	LENGTH:	945													
124	<212>	TYPE:	DNA													
125	<213>	ORGANISM:	Homo sapiens													
127	<400>	SEQUENCE:	5													
128	atgtcagcct	ccaatatacac	cttaacacat	ccaactgcct	tcttgttgg	ggggattcca	60									
129	ggcctgaaac	acctgcacat	ctggatctcc	atcccttct	gcttagcata	tacactggcc	120									
130	ctgctggaa	actgcactct	ccttctcatc	atccaggctg	atgcagccct	ccatgaaccc	180									
131	atgtacctct	ttctggccat	gttggcagcc	atcgacctgg	tccttcctc	ctcagcaactg	240									
132	cccaaaatgc	ttgccccat	ttgggtcagg	gatcgggaga	taaacttctt	tgctgtctg	300									
133	gcccagatgt	tcttccttca	ctccttctcc	atcatggagt	cagcagtgc	gctggccatg	360									
134	gcctttgacc	gctatgtggc	tatctgcaag	ccactgcact	acaccaaggt	cctgactgg	420									
135	tccctcatca	ccaagattgg	catggctgct	gtggcccccgg	ctgtgacact	aatgactcca	480									
136	ctcccccttcc	tgctgagatg	tttccactac	tgccgaggcc	cagtgatcgc	tcactgctac	540									
137	tgtgaacaca	tggctgtggt	gaggcctggcg	tgtggggaca	ctagcttcaa	caatatctat	600									
138	ggcatcgctg	tggccatgtt	tattgtggtg	ttggacactgc	tccttgcatt	cctgtcttat	660									
139	atctttatttc	tccaggcagt	tctactgctt	gcctctcagg	aggcccccta	caaggcattt	720									
140	gggacatgtg	tctctcatat	aggtgccatc	ttagcctct	acacaactgt	ggtcatctct	780									
141	tcaatcgatgc	accgtgttagc	ccgccccatgt	gccctctatg	tccacatctt	ccttgccaaat	840									
142	ttcttatctgc	tcttcccacc	catggtcaat	cccataatct	atgggtcata	gaccaagcaa	900									
143	atccgtgaga	gcatcttggg	agtattccca	agaaaggata	tgttag		945									
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146	<211>	LENGTH:	307													
147	<212>	TYPE:	PRT													
148	<213>	ORGANISM:	Homo sapiens													
150	<400>	SEQUENCE:	6													
151	Met	Leu	Asn	Phe	Thr	Asp	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Thr
152	1				5				10					15		
153	Ser	Arg	Arg	Glu	Trp	Gln	Val	Leu	Phe	Phe	Ile	Ile	Phe	Leu	Val	Val
154							20			25				30		
155	Tyr	Ile	Ile	Thr	Met	Val	Gly	Asn	Ile	Gly	Met	Met	Val	Leu	Ile	Lys
156								35		40				45		
157	Val	Ser	Pro	Gln	Leu	Asn	Asn	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His	Leu
158								50		55				60		
159	Ser	Phe	Val	Asp	Val	Trp	Phe	Ser	Ser	Asn	Val	Thr	Pro	Lys	Met	Leu
160	65					70					75			80		
161	Glu	Asn	Leu	Phe	Ser	Asp	Lys	Lys	Thr	Ile	Thr	Tyr	Ala	Gly	Cys	Leu
162							85			90				95		
163	Val	Gln	Cys	Phe	Phe	Ile	Ala	Leu	Val	His	Val	Glu	Ile	Phe	Ile	
164							100			105				110		

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165 Leu Ala Ala Met Ala Phe Asp Arg Tyr Met Ala Ile Gly Asn Pro Leu  
166 115 120 125  
167 Leu Tyr Gly Ser Lys Met Ser Arg Val Val Cys Ile Arg Leu Ile Thr  
168 130 135 140  
169 Phe Pro Tyr Ile Tyr Gly Phe Leu Thr Ser Leu Ala Ala Thr Leu Trp  
170 145 150 155 160  
171 Thr Tyr Gly Leu Tyr Phe Cys Gly Lys Ile Glu Ile Asn His Phe Tyr  
172 165 170 175  
173 Cys Ala Asp Pro Pro Leu Ile Lys Met Ala Cys Ala Gly Thr Phe Val  
174 180 185 190  
175 Lys Glu Tyr Thr Met Ile Ile Leu Ala Gly Ile Asn Phe Thr Tyr Ser  
176 195 200 205  
177 Leu Thr Val Ile Ile Ile Ser Tyr Leu Phe Ile Leu Ile Ala Ile Leu  
178 210 215 220  
179 Arg Met Arg Ser Ala Glu Gly Arg Gln Lys Ala Phe Ser Thr Cys Gly  
180 225 230 235 240  
181 Ser His Leu Thr Ala Val Ile Ile Phe Tyr Gly Thr Leu Ile Phe Met  
182 245 250 255  
183 Tyr Leu Arg Arg Pro Thr Glu Glu Ser Val Glu Gln Gly Lys Met Val  
184 260 265 270  
185 Ala Val Phe Tyr Thr Thr Val Ile Pro Met Leu Asn Pro Met Ile Tyr  
186 275 280 285  
187 Ser Leu Arg Asn Lys Asp Val Lys Lys Ala Met Met Lys Val Ile Ser  
188 290 295 300  
189 Arg Ser Cys  
190 305  
192 <210> SEQ ID NO: 7  
193 <211> LENGTH: 312  
194 <212> TYPE: PRT  
195 <213> ORGANISM: Homo sapiens  
197 <400> SEQUENCE: 7  
198 Met Asp Gln Lys Asn Gly Ser Ser Phe Thr Gly Phe Ile Leu Leu Gly  
199 1 5 10 15  
200 Phe Ser Asp Arg Pro Gln Leu Glu Leu Val Leu Phe Val Val Leu Leu  
201 20 25 30  
202 Ile Phe Tyr Ile Phe Thr Leu Leu Gly Asn Lys Thr Ile Ile Val Leu  
203 35 40 45  
204 Ser His Leu Asp Pro His Leu His Thr Pro Met Tyr Phe Phe Ser  
205 50 55 60  
206 Asn Leu Ser Phe Leu Asp Leu Cys Tyr Thr Gly Ile Val Pro Gln  
207 65 70 75 80  
208 Leu Leu Val Asn Leu Arg Gly Ala Asp Lys Ser Ile Ser Tyr Gly Gly  
209 85 90 95  
210 Cys Val Val Gln Leu Tyr Ile Ser Leu Gly Leu Gly Ser Thr Glu Cys  
211 100 105 110  
212 Val Leu Leu Gly Val Met Val Phe Asp Arg Tyr Ala Ala Val Cys Arg  
213 115 120 125  
214 Pro Leu His Tyr Thr Val Val Met His Pro Cys Leu Tyr Val Leu Met  
215 130 135 140

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216 Ala Ser Thr Ser Trp Val Ile Gly Phe Ala Asn Ser Leu Leu Gln Thr  
 217 145 150 155 160  
 218 Val Leu Ile Leu Leu Leu Thr Leu Cys Gly Arg Asn Lys Leu Glu His  
 219 165 170 175  
 220 Phe Leu Cys Glu Val Pro Pro Leu Leu Lys Leu Ala Cys Val Asp Thr  
 221 180 185 190  
 222 Thr Met Asn Glu Ser Glu Leu Phe Phe Val Ser Val Ile Ile Leu Leu  
 223 195 200 205  
 224 Val Pro Val Ala Leu Ile Ile Phe Ser Tyr Ser Gln Ile Val Arg Ala  
 225 210 215 220  
 226 Val Met Arg Ile Lys Leu Ala Thr Gly Gln Arg Lys Val Phe Gly Thr  
 227 225 230 235 240  
 228 Cys Gly Ser His Leu Thr Val Val Ser Leu Phe Tyr Gly Thr Ala Ile  
 229 245 250 255  
 230 Tyr Ala Tyr Leu Gln Pro Gly Asn Asn Tyr Ser Gln Asp Gln Gly Lys  
 231 260 265 270  
 232 Phe Ile Ser Leu Phe Tyr Thr Ile Ile Thr Pro Met Ile Asn Pro Leu  
 233 275 280 285  
 234 Ile Tyr Thr Leu Arg Asn Lys Asp Val Lys Gly Ala Leu Lys Lys Val  
 235 290 295 300  
 236 Leu Trp Lys Asn Tyr Asp Ser Arg  
 237 305 310  
 239 <210> SEQ ID NO: 8  
 240 <211> LENGTH: 309  
 241 <212> TYPE: PRT  
 242 <213> ORGANISM: Homo sapiens  
 244 <220> FEATURE:  
 245 <221> NAME/KEY: VARIANT  
 246 <222> LOCATION: (1)...(309)  
 247 <223> OTHER INFORMATION: Xaa= any amino acid  
 249 <400> SEQUENCE: 8  
 250 Met Ala Ala Gly Asn His Ser Thr Val Thr Glu Phe Ile Leu Lys Gly  
 251 1 5 10 15  
 252 Leu Thr Lys Arg Ala Asp Leu Gln Leu Pro Leu Phe Leu Leu Phe Leu  
 253 20 25 30  
 254 Gly Ile Tyr Leu Val Thr Ile Val Gly Asn Leu Gly Met Ile Thr Leu  
 255 35 40 45  
 256 Ile Cys Leu Asn Ser Gln Leu His Thr Pro Met Tyr Tyr Phe Leu Ser  
 257 50 55 60  
 258 Asn Leu Ser Leu Met Asp Leu Cys Tyr Ser Ser Val Ile Thr Pro Lys  
 259 65 70 75 80  
 260 Met Leu Val Asn Phe Val Ser Glu Lys Asn Ile Ile Ser Tyr Ala Gly  
 261 85 90 95  
 262 Cys Met Ser Gln Leu Tyr Phe Phe Leu Val Phe Val Ile Ala Glu Cys  
 263 100 105 110  
 W--> 264 Tyr Met Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Xaa Xaa Cys His  
 265 115 120 125  
 266 Pro Leu Leu Tyr Asn Ile Ile Met Ser His His Thr Cys Leu Leu Leu  
 267 130 135 140

RAW SEQUENCE LISTING ERROR SUMMARY  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 374,376  
Seq#:8; Xaa Pos. 125,126